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Substitute for form 1449A/B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 1

 INFORMATION DISCLOSURE STATEMENT BY APPLICANT <p><i>(Use as many sheets as necessary)</i></p>				Complete if Known	
Sheet	1	of	1	Application Number	10/660,738
				Filing Date	September 12, 2003
				First Named Inventor	Egisto Boschetti
				Group Art Unit	1641
				Examiner Name	Melanie J. Yu
				Attorney Docket Number	441029/PALL

U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

Examiner Initials	Doc. No.	Foreign Patent Document			Name of Patentee or Applicant	Date of Publication	Translation	
		Office	Application or Patent Number	Kind Code			Yes	No ⁺⁺
SH	D 4	EP	0 165 912		Jerker Porath	12/27/1985		
	D 5	EP	0 180 563		Porath et al.	5/7/1986		
	D 6	WO	92/16292		Lihme et al.	10/1/1992		
Y	D 7	GB	2 230 010		Kasche et al.	10/10/1990		

OTHER - NON PATENT LITERATURE DOCUMENTS

Examiner Signature

100 Data Considered

Date Considered

4/16/68

- A concise statement of relevance is being submitted in lieu of a translation. 37 CFR 1.98(a)(3).
- An English-language equivalent/patent, or an English-language abstract, or an English-language version of the search report or action by a foreign patent office in a counterpart foreign application indicating the degree of relevance found by the foreign office is being submitted in lieu of a concise explanation of relevance under 37 CFR 1.98(a)(3).

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				First Named Inventor	Egisto Boschetti
				Group Art Unit	1754
				Examiner Name	Unassigned
Sheet	1	of	1	Attorney Docket Number	441029/PALL

U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

OTHER - NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Doc. No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number (s), publisher, city and/or country where published.	Translation	
			Yes	No*+

Examiner Signature

for signature in being submitted in lieu of a transcript.

Date Considered

11/14/05

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Substitute for form 1449B/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT			
Date Submitted: January 4, 2005			
(use as many sheets as necessary)			
Sheet	1	of	1
		Attorney Docket Number	

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	B1	5 563 056		BSI Corporation	10/8/1996	
	B2	2003/0008971		Chee-Youb WON et al.	1/9/2003	

FOREIGN PATENT DOCUMENTS

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
SH	B3	International Search Report of PCT/US2004/008210.	

Examiner Signature		Date Considered	11/16/05
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¹ Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

⁶Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁷Applicant is to place a check mark here if English language Translation is attached.

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Form PTO-1449 (MODIFIED)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 035394-0245	SERIAL NO. 10/660,738
O 1 P INFORMATION DISCLOSURE CITATION FEB 19 2004 Use several sheets if necessary)		APPLICANT		Egisto BOSCHETTI et al.	
		FILING DATE		GROUP ART UNIT	
		September 12, 2003		Not Yet Assigned	

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE
SH	A1	4,381,239	04/26/1983	CHIBATA et al.			
	A2	4,701,500	10/20/1987	PORATH			
	A3	5,234,991	08/10/1993	TAYOT et al.			
	A4	5,652,348	07/29/1997	BURTON et al.			
	A5	5,185,313	02/09/1993	PORATH			
	A6	5,075,371	12/24/1991	BOSCHETTI et al.			
	A7	5,141,966	08/25/1992	PORATH			
	A8	5,268,097	12/07/1993	GIROT et al.			
	A9	5,719,060	02/17/1998	HUTCHENS et al.			
	A10	6,124,137	09/26/2000	HUTCHENS et al.			
	A11	2001/0045384		STIPANOVIC et al.			04/30/2001
✓	A12	6,225,047	05/01/2001	HUTCHENS et al.			

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION	
							YES	NO
SH	A13	WO 95/31279	11/23/1995	WIPO				
	A14	WO 96/00735	01/11/1996	WIPO				
✓	A15	WO 03/064594	08/07/2003	WIPO				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

A16	G. H. SCHOLZ et al., "Salt-independent Binding of Antibodies from Human Serum to Thiophilic Heterocyclic Ligands", Journal of Chromatography B. vol. 709, pgs. 189-196 (1998).
A17	S. C. BURTON et al., "Hydrophobic Charge Induction Chromatography: Salt Independent Protein Adsorption and Facile elution with Aqueous Buffers", Journal of Chromatography a, vol. 814, pgs. 71-81 (1998).

EXAMINER	DATE CONSIDERED
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OTHER DOCUMENTS (cont'd)																													
<table border="1"> <tr> <td>PATENT & TRADEMARK OFFICE</td> <td>A18</td> <td colspan="4">L. GUERRIER et al., "New Methods for the Selective Capture of Antibodies Under Physiological Conditions", Bioseparation, vol. 9, pgs. 211-221 (2000).</td> </tr> <tr> <td></td> <td>A19</td> <td colspan="4">E. BOSCHETTI, "The Use of Thiophilic Chromatography for Antibody Purification: A Review", J. Biochem. Biophys. Methods vol. 49, pgs. 361-389 (2001).</td> </tr> <tr> <td></td> <td>A20</td> <td colspan="4">BO-LENNART JOHANSSON et al., "Preparation and Characterization of Prototypes for Multi-Modal Separation Media Aimed for Capture of Negatively Charged Biomolecules at High Salt Conditions", Journal of Chromatography A, vol. 1016, pgs. 21-33 (2003).</td> </tr> <tr> <td></td> <td>A21</td> <td colspan="4">BO-LENNART JOHANSSON et al., "Preparation and Characterization of Prototypes for Multi-Modal Separation Aimed for Capture of Positively Charged Biomolecules at High-Salt Conditions", Journal of Chromatography A, vol. 1016, pgs. 35-49 (2003).</td> </tr> </table>						PATENT & TRADEMARK OFFICE	A18	L. GUERRIER et al., "New Methods for the Selective Capture of Antibodies Under Physiological Conditions", Bioseparation, vol. 9, pgs. 211-221 (2000).					A19	E. BOSCHETTI, "The Use of Thiophilic Chromatography for Antibody Purification: A Review", J. Biochem. Biophys. Methods vol. 49, pgs. 361-389 (2001).					A20	BO-LENNART JOHANSSON et al., "Preparation and Characterization of Prototypes for Multi-Modal Separation Media Aimed for Capture of Negatively Charged Biomolecules at High Salt Conditions", Journal of Chromatography A, vol. 1016, pgs. 21-33 (2003).					A21	BO-LENNART JOHANSSON et al., "Preparation and Characterization of Prototypes for Multi-Modal Separation Aimed for Capture of Positively Charged Biomolecules at High-Salt Conditions", Journal of Chromatography A, vol. 1016, pgs. 35-49 (2003).			
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